

0590
08/10

CRF Errors Corrected by the ST Systems Branch

Serial Number:

09 916 501

CRF Processing Date:

Edited by:

Verified by:

10/05/01

(STIC sta:

☐

Changed a file from non-ASCII to ASCII

☐

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐

Edited a format error in the Current Application Data section, specifically:

☐

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other

ENTERED

☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☐

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐

Inserted colons after headings/subheadings. Headings edited included:

☐

Deleted extra, invalid, headings used by an applicant, specifically:

☒

Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as

☐

Inserted mandatory headings, specifically:

☐

Corrected an obvious error in the response, specifically:

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

☐

Corrected an error in the Number of Sequences field, specifically:

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

☒

Other:

Inserted a hard return at field identifier 160. MH

Edited Raw File.MH Previous Edit on diskette VKS

~~VKS~~

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING

DATE: 10/05/2001

PATENT APPLICATION: US/09/916,501

TIME: 09:36:54

Input Set : N:\Crf3\08082001\I916501.raw

Output Set: N:\CRF3\10052001\I916501.raw

ENTERED

```

1 <110> APPLICANT: KRIMMER, Hans-Peter
2 REICHERT, Dietmar
3 DRAUZ, Karlheinz
4 KLEMENT, Ingo
5 MAY, Oliver
6 <120> TITLE OF INVENTION: Process for the Preparation of Allylsine Acetal
7 <130> FILE REFERENCE: 210740US-10757-9350-0-X
8 <140> CURRENT APPLICATION NUMBER: US/09/916,501
9 <141> CURRENT FILING DATE: 2001-07-30
10 <150> PRIOR APPLICATION NUMBER: Germany 100 37 115.9
11 <151> PRIOR FILING DATE: 2000-07-28
12 <160> NUMBER OF SEQ ID NOS: 6
13 <170> SOFTWARE: PatentIn version 3.1
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 1377
17 <212> TYPE: DNA
18 <213> ORGANISM: Arthrobacter aurescens
19 <400> SEQUENCE: 1
20 atgtttgacg taatagttaa gaactgccgt atggtgtcca gcgacggaat caccgaggca 60
21 gacattcttg tgaaagacgg caaagtcgcc gcaatcagcg cggacacacg tgatgtcgag 120
22 gccagccgaa ccattgacgc gggtagcaag ttcgtgatgc cgggcgtggg cgatgaacat 180
23 gtgcataatca tcgacatgga tctcaagaac cggtagggcc gcttcgaact cgattccgag 240
24 tctgcggccg tgggagggcat caccaccatc atcgagatgc cgatcacctt cccacccacc 300
25 accactcttg acgccttcct tgaaaagaag aagcaggcgg ggcagcgggt gaaagttagc 360
26 ttcgcgctct atggaggttg agtgccggga aacctgcccg agatccgcaa aatgcacgac 420
27 gccggcgctg tgggcttcaa gtcaatgatg gcagcctcag tgccggggcat gttcgacgcc 480
28 gtcagcgacg gcgaactgtt cgaaatcttc caagagatcg cagcctgttg ttcagtcac 540
29 gtggttcatt ccgagaatga aacgatcatt caagcgctcc agaagcagat caaggccgct 600
30 ggcggcaagg acatggccgc ctacgaggca tcccaaccag ttttccagga gaacgaggcc 660
31 attcagcggt cggtgcttct gcagaaaaga gccggctgtc gactgatcgt gcttcacgtg 720
32 agcaaccctg acggcgctcg gtttaatacat caggcgcaat ccgaggggtc ggacgtccac 780
33 tgcgagtcgg gtccgcagta tctgaatatc accacggacg acgccgaacg aatcggaaccg 840
34 tatatgaagg tcgcgccgcc cgtccgctca gccgaaatga acgtcaggtt atgggaacaa 900
35 ctcgagaacg gtgtcatcga cacccttgga tcagatcatg gcggacatcc gtgcgaggac 960
36 aaagaacccg gctggaagga cgtgtggaaa gccggcaacg gtgcgctggg ccttgagaca 1020
37 tccctgccta tgatgtcgac caacggagtg aacaagggca ggctatcctt ggaacgcctc 1080
38 gtcgaggtga tgtgcgagaa acctgcgaag ctttttgta tctatccgca gaagggcacg 1140
39 ctacaggttg gttccgacgc cgatctactc atcctcgatc tggacattga caccaaagtg 1200
40 gatgcgtcgc agttccgatc cctgcataag tacagcccggt tcgacgggat gcccgtcacg 1260
41 ggtgcaccgg ttctgacgat ggtgcgcgga acggtggttg ccgagcaggg agaagtctctg 1320
42 gtcgagcagg gattcggcca gttcgtcacc cgtcaccact acgaggcgct gaagtga 1377
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 711
46 <212> TYPE: DNA
47 <213> ORGANISM: Arthrobacter aurescens
48 <400> SEQUENCE: 2
49 atgagaatcc tcgtgatcaa cccaacagt tccagcgccc ttactgaatc ggttgcgagc 60

```

RAW SEQUENCE LISTING

DATE: 10/05/2001

PATENT APPLICATION: US/09/916,501

TIME: 09:36:54

Input Set : N:\Crf3\08082001\I916501.raw

Output Set: N:\CRF3\10052001\I916501.raw

50	gcagcacaac	aagttgtcgc	gaccggcacc	ataattttctg	ccatcaaccc	ctccagagga	120
51	cccgcggtca	ttgaaggcag	ctttgacgaa	gcactggcca	cgttccatct	cattgaagag	180
52	gtggagcgcg	ctgagcgga	aaacccgcc	gacgcctacg	tcatcgcatg	tttcggggat	240
53	ccgggacttg	acgcggtcaa	ggagctgact	gacaggccag	tggtaggagt	tgccgaagct	300
54	gcaatccaca	tgtcttcatt	cgtcgcggcc	accttctcca	ttgtcagcat	cctcccagg	360
55	gtcaggaaac	atctgcacga	actggtacgg	caagcggggg	cgacgaatcg	cctcgccctcc	420
56	atcaagctcc	caaactctggg	ggtgatggcc	ttccatgagg	acgaacatgc	cgcactggag	480
57	acgctcaaac	aagccgccaa	ggaggcggtc	caggaggacg	gcgccgagtc	gatagtgctc	540
58	ggatgcgccg	gcatggtggg	gtttgcgcgt	caactgagcg	acgaactcgg	cgtccctgtc	600
59	atcgaccccc	tcgaggcagc	ttgccgcgtg	gccgagagtt	tggtcgctct	gggctaccag	660
60	accagcaaag	cgaactcgta	tcaaaaaccg	acagagaagc	agtacctcta	g	711
62	<210>	SEQ ID NO: 3					
63	<211>	LENGTH: 1239					
64	<212>	TYPE: DNA					
65	<213>	ORGANISM: <i>Arthrobacter aurescens</i>					
66	<400>	SEQUENCE: 3					
67	atgaccctgc	agaaagcgca	agcggcgcg	attgagaaag	agatccggga	gctctcccgg	60
68	ttctcggcag	aaggccccgg	tgttaccgg	ctgacctaca	ctccagagca	tgccgcgcg	120
69	cgggaaacgc	tcattgcggc	tatgaaagcg	gccgccttga	gcgttcgtga	agacgcactc	180
70	ggaaacatca	tcggccgacg	tgaaggcact	gatccggagc	ttcctgcgat	cgcggtcggt	240
71	tcacacttcg	attctgtccg	aaacggcggg	atgtttgatg	gcaactgcagg	cgtggtgtgc	300
72	gcccttgagg	ctgcccgggt	gatgctggag	aacggctacg	tgaatcggca	tccatttgag	360
73	ttcatcgcca	tcgtggagga	ggaaggggccc	cgcttcagca	gtggcatggt	gggcggccgg	420
74	gccattgcag	ggttggtcgc	cgacagggaa	ctggactctt	tggttgatga	ggatggagtg	480
75	tccgttaggc	aggcggctac	tgccctcggc	ttgaagccgg	gcgaactgca	ggctgcagcc	540
76	cgctccgcg	cggacctgcg	tgtttttatc	gaactacaca	ttgaacaagg	accgatcctc	600
77	gagcaggagc	aaatagagat	cggagttgta	acctccatcg	ttggcggttcg	cgcattgcgg	660
78	gttgccgtca	aaggcagaag	cgaccacgcc	ggcacaaccc	ccatgcacct	gcgccaggat	720
79	gcgctggtac	ccgccgctct	catggtgagg	gaggtcaacc	ggttcgtcaa	cgagatcgcc	780
80	gatggcacag	tggctaccgt	tggccacctc	acagtggccc	ccggtggagg	caaccaggtc	840
81	ccgggggagg	tggacttcac	actggacctg	cgttctccgc	atgaggagtc	gctccgcgtg	900
82	ctgatcgacc	gcatctcggt	catggtcggc	gaggtcgctt	cccaggccgg	tgtggctgcc	960
83	gatgtggatg	aatttttcaa	tctcagccc	gtgcagctgg	ctcctaccat	ggtggacgcc	1020
84	gttcgcgaag	cggcctcggc	cttgacgttc	acacaccggg	atatcagcag	tggggcgggc	1080
85	cacgactcga	tgttcatcgc	ccaggtcacg	gacgtcggaa	tggttttcgt	tccaagccgt	1140
86	gctggccgga	gccacgttcc	cgaagaatgg	accgatttcg	atgaccttcg	caaagggaact	1200
87	gaggttgctc	tccgggtaat	gaaggcactt	gaccggtaa			1239
89	<210>	SEQ ID NO: 4					
90	<211>	LENGTH: 1377					
91	<212>	TYPE: DNA					
92	<213>	ORGANISM: artificial sequence					
93	<220>	FEATURE:					
94	<223>	OTHER INFORMATION: Description of synthetic sequence: evolved hydantoinase					
95	<400>	SEQUENCE: 4					
96	atgtttgacg	taatagttaa	gaactgccgt	atggtgtcca	gcgacggaat	caccgaggca	60
97	gacattctgg	tgaagacgg	caaagtcgcc	gcaatcagct	cggacacaag	tgatgttgag	120
98	gcgagccgaa	ccattgacgc	gggtggcaag	ttcgtgatgc	cgggcgtggt	cgatgaacat	180
99	gtgcataatca	tcgacatgga	tctgaagaac	cggtatggcc	gcttcgaact	cgattccgag	240
100	tctgcggccg	tgggaggcat	caccaccatc	tttgagatgc	cgtttacctt	cccgccccacc	300

RAW SEQUENCE LISTING

DATE: 10/05/2001

PATENT APPLICATION: US/09/916,501

TIME: 09:36:54

Input Set : N:\Cr3\08082001\I916501.raw

Output Set: N:\CRF3\10052001\I916501.raw

101	accacttttg	acgccttcct	cgaaaagaag	aagcaggcgg	ggcagcgggt	gaaagttgac	360
102	ttcgcgctct	atggcgggtg	agtgccggga	aacctgccc	agatccgcaa	aatgcacgac	420
103	gccggcgag	tgggcttcaa	gtcaatgatg	gcagcctcag	ttccgggcat	gttcgacgcc	480
104	gtcagcgag	gcgaactgtt	cgaaatcttc	caggagatcg	cagcctgtgg	ttcagtcgcc	540
105	gtgggtccatg	ccgagaatga	aacgatcatt	caagcgctcc	agaagcagat	caaagccgct	600
106	ggtcgcaagg	acatggccgc	ctacgaggca	tcccaaccag	ttttccagga	gaacgaggcc	660
107	attcagcgtg	cgttactact	gcagaaagaa	gccggctgtc	gactgattgt	gcttcacgtg	720
108	agcaaccctg	acggggtcga	gctgatacat	cgggcgcaat	ccgagggcca	ggacgtccac	780
109	tgcgagtcgg	gtccgcagta	tctgaatatc	accacggacg	acgccgaacg	aatcggaccg	840
110	tatatgaagg	tcgcgcgcgc	cgtccgctca	gccgagatga	acgtcagatt	atgggaacaa	900
111	cttgagaacg	ggctcatcga	cacccttg	tcagaccacg	gcggacatcc	tgtcgaggac	960
112	aaagaaccgc	gctggaagg	cgtgtggaaa	gccggcaacg	gtgcgctggg	ccttgagaca	1020
113	tccctgccta	tgatgctgac	caacggagtg	aataaaggca	ggctatcctt	ggaacgcctc	1080
114	gtcgaggtga	tgtgcgagaa	acctgcgaag	ctctttggca	tctatccgca	gaagggcacg	1140
115	ctacagggtt	gttcgcagcg	cgatctgtc	atcctcgatc	tggatattga	caccaaagt	1200
116	gatgcctcgc	agttccgac	cctgcataag	tacagcccg	tcgacgggat	gcccgtcacg	1260
117	ggtgcaccgc	ttctgacgat	ggtgcgcgga	acggtggtg	cagagaagg	agaagttctg	1320
118	gtcgagcagg	gattcggcca	gttcgtcacc	cgtcacgact	acgaggcgtc	gaagtga	1377

120 <210> SEQ ID NO: 5

121 <211> LENGTH: 711

122 <212> TYPE: DNA

123 <213> ORGANISM: *Arthrobacter aurescens*

124 <400> SEQUENCE: 5

125	atgagaatcc	tcgtgatcaa	ccccaacagt	tccagcgccc	ttactgaatc	ggttgcgagc	60
126	gcagcacaac	aagttgtcgc	gaccggcacc	ataatttctg	ccatcaaccc	ctccagagga	120
127	cccgcgctca	ttgaaggcag	ctttgacgaa	gcactggcca	cgttccatct	cattgaagag	180
128	gtggagcgcg	ctgagcgagg	aaacccgccc	gacgcctacg	tcacgcgatg	tttcggggat	240
129	ccgggacttg	acgcggctca	ggagctgact	gacaggccag	tggtaggagt	tgccgaagct	300
130	gcaatccaca	tgtcttcatt	cgtcgcggcc	accttctcca	ttgtcagcat	cctcccgagg	360
131	gtcaggaaac	atctgcacga	actggtaagg	caagcggggg	cgacgaatcg	cctcgcctcc	420
132	atcaagctcc	caaactctgg	ggtgatggcc	ttccatgagg	acgaacatgc	cgcactggag	480
133	acgctcaaac	aagccgccaa	ggaggcggtc	caggaggacg	gcgccgagtc	gatagtgctc	540
134	ggatgcgccg	gcatgggtgg	gtttgcgcgt	caactgagcg	acgaactcgg	cgtccctgtc	600
135	atcgaccccg	tcgaggcagc	ttgccgcgtg	gccgagagtt	tggtcgctct	gggctaccag	660
136	accagcaaa	cgaaactcgt	tcaaaaaccg	acagagaagc	agtacctcta	g	711

138 <210> SEQ ID NO: 6

139 <211> LENGTH: 1263

140 <212> TYPE: DNA

141 <213> ORGANISM: *Arthrobacter aurescens*

142 <220> FEATURE:

143 <221> NAME/KEY: misc_feature

144 <222> LOCATION: (25)..(25)

145 <223> OTHER INFORMATION: n=any nucleotide

146 <400> SEQUENCE: 6

W--> 147	atgaccctgc	agaaagcgca	agcgnagcgc	attgagaaag	agatctggga	gctctcccg	60
148	ttctcggcgg	aaggccccgg	tgttacccgg	ctgacctaca	ctccagagca	tgccgcgcgc	120
149	cgggaaacgc	tcattgcggc	tatggaagcg	gccgctttga	gcgttcgtga	agacgctctc	180
150	gggaacatca	tcggccgacg	tgaaggcact	gatccgcagc	tccctgcgat	cgcggtcggt	240
151	tcacacttcg	attctgtccg	aaacggcggg	atgttcgatg	gcactgcagg	cgtggtgtgc	300

RAW SEQUENCE LISTING

DATE: 10/05/2001

PATENT APPLICATION: US/09/916,501

TIME: 09:36:54

Input Set : N:\Crf3\08082001\I916501.raw

Output Set: N:\CRF3\10052001\I916501.raw

152	gcccttgagg	ctgcccgggt	gatgctggag	agcggctacg	tgaatcggca	tccatttgag	360
153	ttcatcgcga	tcgtggagga	ggaaggggcc	cgcttcagca	gtggcatggt	gggcggccgg	420
154	gccattgcag	gtttggtcgc	cgacagggaa	ctggactctt	tggttgatga	ggatggagtg	480
155	tccgttaggc	aggcggctac	tgccttcggc	ttgaagccgg	gcgaactgca	ggctgcagcc	540
156	cgctccgcgg	cggacctgcg	tgcttttatc	gaactacaca	ttgaacaagg	accgatcctc	600
157	gagcaggagc	aaatagagat	cggagttgtg	acctccatcg	ttggcgttcg	cgcattgcgg	660
158	gttgctgtca	aaggcagaag	cgcacacgcc	ggcacaaccc	ccatgcacct	gcgccaggat	720
159	gcgctggtac	ccgccgctct	catggtgcgg	gaggtcaacc	ggttcgtcaa	cgagatcgcc	780
160	gatggcacag	tggctaccgt	tggccacctc	acagtggccc	ccggtggcgg	caaccaggtc	840
161	ccgggggagg	tggagttcac	actggacctg	cgttctccgc	atgaggagtc	gctccgggtg	900
162	ttgatcaacc	gcatctcggg	catggtcggc	gaggtcgcc	cgcaggccgg	tgtggctgcc	960
163	gatgtggatg	aatttttcaa	tctcagccc	gtgcagctgg	ctcctaccat	ggtggacgcc	1020
164	gttcgcgaag	cggcctcggc	cctgcagttc	acgcaccggg	atatcagcag	tggggcgggc	1080
165	cacgactcga	tgttcatcgc	ccaggtcacg	gacgtcggaa	tggttttcgt	tccaagccgt	1140
166	gctggccgga	gccacgttcc	cgaagaatgg	accgatttcg	atgaccttcg	caagggaact	1200
167	gaggttgtcc	tccgggtaat	gaaggcactt	gaccggggat	cccatcatca	tcatcatcat	1260
168	tga						1263

VERIFICATION SUMMARY

DATE: 10/05/2001

PATENT APPLICATION: US/09/916,501

TIME: 09:36:55

Input Set : N:\Crf3\08082001\I916501.raw

Output Set: N:\CRF3\10052001\I916501.raw

L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6